

Amateur Radio Station



LOG

AMERICAN RADIO RELAY LEAGUE
NEWINGTON, CONNECTICUT, U.S.A.

CALL SIGN

ZL0AAA / + / _____ TO MAY 01, 1991
CU3 / K6EDX _____ JUNE 06 TO JUNE 29, 1991

ZL0AAA-K6EDX/CU3 1991

Book No. 2

From 25/03/91

To _____

\$3.50 US
ROOM FOR 200 MORE ENTRIES!

OPTIONAL

ATTACH PHOTOCOPY OF YOUR LICENSE HERE.

IMPORTANT — FILL THIS OUT

CALL SIGN ZL4PRAA /

Station Location

Houtora, North Island, New Zealand /
(Street Address)

(City/Town)

(State/Province)

ZIP/PC

(Country)

Time entries are in (check one): ☒ Coordinated Universal Time (UTC)

☐ _____ Time

Operator's Signature

Bob Conner

MODE

The FCC has simplified its identification of the types of emissions used in the Amateur Service with its rewrite of Part 97, effective September 1, 1989.

CW	Telegraphy	PHONE	Speech and other sound
DATA	Telemetry, telecommand and computer communications (includes Packet)	PULSE	Modulated main carrier
IMAGE	Facsimile and television	RTTY	Direct-printing telegraphy (includes AMTOR)
MCW	Tone modulated telegraphy	SS	Spread spectrum
		TEST	Emissions containing no information.

For additional information on emission types refer to *The FCC Rulebook*, 8th Edition or later.

ABOUT THIS LOG

THE ARRL UNIVERSAL LOG

Many radio amateurs keep a detailed log of their on-the-air activities. Such facilitates confirmation of QSL requests, investigation of potential TV/RFI complaints, and detection of unauthorized use of your call sign. A neat accurate log is a matter of personal pride with the active radio amateur.

The ARRL Universal Log suits every type of amateur operation: DXing, contests, ragchews. The left-hand segment of the log sheet contains generally **fixed** information which is not subject to change between contacts. This includes DATE, FREQ, MODE, and POWER. Consult the inside cover for mode designation. The power should be indicated in watts output.

The right-hand segment of the log sheet contains the **variable** items that will change from contact to contact. This includes TIME (UTC recommended and indicated on inside cover), call sign of the STATION WORKED, and RST REPORT SENT and RECEIVED. The TIME OFF column may also be used to log EXCHANGE information for state QSO Parties and contests or to log ITU/CQ Zone or grid locator. This column is located adjacent to the REPORT RECEIVED to facilitate this multi-purpose use. Otherwise, the station operator may use this column to log TIME OFF for ragchews and casual contacts. The COMMENTS column may be used for QTH, NAME, and QSL information, or any other information that the operator wishes to note. The COMMENTS column should also be used to indicate any variation from the standard information required on the inside cover. A checkmark will indicate QSL sent and received.

Be sure to fill out the information on the inside cover.

LOG REQUIREMENTS

There is no longer any requirement that radio amateurs keep a record of their operations in a station logbook. On an individual basis the FCC may require a record of station

operations to assure compliance with its rules. Information pertaining to special operations such as repeater, auxiliary and remote control still have to be kept as station records. Consult ARRL's *FCC Rule Book* for details.

We are still encouraged to keep records of our operations. This is especially true of experiments and activities that may contribute to the state-of-the-art. There are practical as well as sentimental reasons for keeping a log. The following information may be entered:

- 1) The call sign of the station, the signature of the station licensee, or a photocopy of the station license.
- 2) The locations and dates upon which fixed operation of the station was initiated and terminated. If applicable, the location and dates upon which portable operation was initiated and terminated at each location.
- 3) The date and time periods the control operator for the station was other than the station licensee, and the signature and primary station call sign of that control operator.
- 4) A notation of third-party traffic sent or received including names of all third parties, and a brief description of the traffic content.

AVAILABILITY OF LICENSE

You must have your original license (or a photocopy) with you when you are operating mobile, portable, or guest-operating at another station. At your own station location you may post your license (or a photocopy) near the operating position in lieu of having it on your person. A convenient place is provided on the inside cover of this logbook for attaching a photocopy of your license. If you are guest-operating, you must have available for inspection the station license (or a photocopy) for that station, in addition to your own operator's license.

FIXED				VARIABLE									
DATE	FREQ	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
27 Oct	28/88	FM	25	2312	NAIL	DFQ	DFQ	2340	BRISTOL, CT	DALE		✓	✓
28 Oct	3.799	SSB	KW	1101	JF11ST	44	33		NEAR TOKYO	JIN	2-EL BEAM!	✓	✓
				1105	JA1XAF	44	53			SAITO			
9 Dec	28.480	SSB	1000	1501	KS2D/3	59	59	PA	ARRL 10-METER CONTEST				
				02	N4LTA	59	59	TN					
				03	KSMM/7	59	59	OR					
				05	VESUF	59	59	SK					
25 Dec	21.007	CW	1000	1812	HB9CUY	599	579	1817	GENEVA	CLAUDIA	BURD	✓	
27 Dec	14.088	RTTY	1000	2216	FMSWE	579	579			GUY	WAFRU	✓	

See inside front cover. Output in Watts. UTC recommended. RST. See back inside cover. This column may also be used for contest-exchange info received.

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
26/03/9	28.685	SSB	80	2108	WAGBYA	59	59						
	01050	CW	80	2129	FUSDRL	59	59			Reve - Bao Chang & Duff over 5000			
	0110	"	"	2136	FMSWD	55	55			Lucien			X
	0110	"	"	2230	VIC4FX2	56	59			ARNE - Q-20			
				2232	VIC4JAT	55	55			Q-20 W			
				2239	JASCMO	59	59			PMG3			
				2241	JICHI	55	55			Olgundwa Kenji			
				2309	VK305	57	57						
				2322	ASSEM	57	57			JAT ^{MEM} / MISO (EAM?)			X
27/03/9	28.885	SSB	80	0200	VK305	59	59						
				0205	VK4BRC	59	59			Paul			
				0210	VK4APG	59	59			Peru - PJ9JT/110			
				0217	VK7TK	59	59			Moss - (2153 ASSEM)			
	50 0110	SSB	80	0237	KH6SB	59	59			Steve - 2000 WZ Flame / 7000 WZ Reunited			X
	50 0110	"	"	0237	JABRC	59	59			Nob			
	0110	CW	"	0500	J17DWD	55	59						
	0110	CW	"	0501	JA1RFF	55	59			PM95			
		SSB	"	0508	JA1BK	55	57						
				0509	JF1BMN	59	59			QMO6			
				0511	JA7SDY	59	59			QNOO SeiDo			
				0512	J17DWD/0	57	59						
				0513	JE1HLR	59	59			SEI - PM95			
				0513	JA1RFF	59	59			Masa			
				0513	JAYBXL	59	59			PMG4			
				0515	JE1RKX	59	59			QMO5			

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	S	R
27-03-91	1.05		80	0515	J12 UH2	59	59		SHIGI				
				0516	JH8EIKJ	59	59		QNO2				
				0517	JAI AAT	59	59						
				0518	JSLKAC	59	59		YDA PM14				
				0519	JABEKC	57	55		QW23				
				0520	JAZDJH	57	57		KOO -				
				0521	JK3NSD	55	53		PM74 -				
				0524	JAYDE	53	53		PM74 -				
				0522	JH4GLY	55	55		-				
				0523	JAZBZY	56	52		-				
				0533	JAZOJA	59	59		KOS -				
				0541	KHGSB	59	59		STEVE				
				0602	JH4JPO	55	59		YUKI - PM63				
				0930	K66UH	59	59		Louie/	(052)		X	
				2021	FOSDR	5NN	5NN		RENE -		OC	X	
				2029	WSEGE	33W	53W		EL6G		NA		
				2234	PJ4JS	55	54		JUHN =	- WJAX	SA	X	
				2239	JAS1	56	56		YOSHI -		AS		
				2357	KGRWT	55	52		DAVE - DREGN -				
				0000	KN5S	55	58		MARK - DRUG				
				0003	XE2HWB	53	55		DL-5				
				0549	ZL1TJB	52	53		STEVEN RF7360				
				2018	ZL1TZA	53	59		PAUL 74				
				2028	ZL2CD	56W	56W						
				2042	ZL2TPY	57	57		14712				

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13M

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
28/04		SSB	80	2128	VK4BLS	55	55					8	
				2149	VK4DDK	59	59			Munt	SA	X	
				2152	VV4AB	59	59			Fred Fikso			
				2154	KP2A	55	41			John - WKE		X	
				2159	KP4BUL	55	58			Dave -			
				2202	KP4A	57N	44N			BILL -			
				2223	VK4FXZ	59	59+			Arnie			
				2225	VK4FP	59	59			LW - Downsville 241			
				2228	VK42JR	59	59			Row = TKW			
				2248	VK2QF	52	51						
				2255	F35NLC	59	59 ³⁰			PLAN BH5Z - 10W/SEL		X	
				2259	K6STI	55	55						
				2259	W7FN	55	/						
				2300	VK2BSP	55	55						
				2302	2L2TPY	55	55						
				2311	N7AMA	55	57			Garf		7	
				2313	WB7FDQ	55	56			DM43 - A3 Mike			
				2314	WA9JTM	55	55			DM33 - A3 - Pete			
	147			2315	W6B5I	57	56			GAB -	NA		
	149		14	2320	VK8RIH	59	59			Ray - PA57 40W - 60W	OC		
	149			2321	VK8ZLX	59	59				OC		
	140	SSB	80	2327	K6G4H/DU1	55	59			Loose - #47 PK04	OC	X	
				2334	VK8TM	55						X	
				2336	P29PL	59	59			Q130 - Paul 0% VK9AS			
				2341	P29GD	55	58			-			
2342					VK82MA	57	58			Damon PA57 Mike			
					P29ZSD								

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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
28/03/11	.125	SSB	80	2344	VK8AH	52	55-7		-				
29/03/11	.140	"	"	0035	VK308	55	—						
	.110	CW	"	0140	JABTSG	599	SSN				AS		
	.114	SSB	"	1954	KP4EOR	32	42		Dave				
	.125	"	"	2007	ZF1RC	59	59			EK99 - Gurnee - Roger -			
	.103	"	"	2011	PJ9EE	55	53			FK52 - CHET - BUNAYE - 40 YR 3CN			
	.110	CW		2149	Ki60	59N	SSN			CN98 -			
30/03/11	.110	CW	"	0149	K68Y	59	52						
	.098	CW	80	1058	JF3UIT	53N	SSN			SH5N PM74			
	"	"	"	1106	JF3GPS	55N	SSN			AKi PM74			
	.088			2002	K7IKV	55N	SSN			DN16 Dave (Newman)			
					WA7YWM	59	59			Denny - DM33			
				2019	AA7A	59	59			Nen - "43			
				2021	WA7RAi	59	59			Chuck - "33			
				2022	KE7OT	56	56			- DM43			
				2023	N5JAV	59	59			(Sun?) NM			
				2024	K6M10 (19)	59	59			Jim - TUESDAY, A3			
	.095			2049	W5V4	22N	SSN						
				2051	W055	31	55N					X	
				2052	W7G2	59	55N						
				2054	WA7JTM	33N	SSN			DM22			
				2057	WB7FDQ	55N	SSN			PM42			
				2100	W7RM	59N	SSN						
				2103	W7Ci	59N	59N			DM41			
				2108	W5EN	319	44N			EM12			

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
30/03/91	50 0045	CW	80	2119	XE2HWB	319	SSN		DL				
	.125	SSB		2328	N6AFJ	59	—						
				2353	K7NV	50	SS			Narrow DM16 Jm			
31/03/91				0006	NW70	50N	SN			DM26 NV			
				0111	JAYMBM	59	59			Africa Guying Titm -			
				0112	K600V	59	59			W12-W1			
	28.180	SSB	80	0130	VK4BRC	59	59						
	.120	"	"	0201	KN5S	55	55			NM DMG2 - 50 watts /			
	.120	"	"	0202	W375LY	55	55			A3 DM33 Gary -			
				0204	KN5S	59	55			Big Rig			
				0206	WW7B	53	52			DM4B			
	.885	SSB	80	0224	NIG / K46	57				shel -			
				0224	WA5YX	57				Pat			
				0225	VK8RH	55				Pat			
				0243	K6STi	57N	SN						
	28.460	SSB	80	2220	9H6PX	59	59			4222			
	30.108	CW	50	2241	W502i	59	59						
	.110	SSB	80	2243	N5TX	57	57			TEX - EL09 - 003 / 260AFu			
	.110	"	80	2247	K851uA	50	55			EL29 - NR Hinson -			
				2250	K6STi	59	59						
				2300	AAGTT	59	59			B11 -			
01/04/91				0040	VK4H2	57	59			B11 -			
					VK4ASO	57	59			- 9662			
					VK4ZIB	59	59			ZJB			
					VK4GC	59	59			"			
					VK4BTE	59	55			0061			

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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
01/04/91				0645	VK42AZ	59	59			Lance QGGZ			
01/04/91					VK4KR	55	55			keol -			
					VK42RA	57	57			Jim -			
					VK42AL	58	58			Tom - QGGZ			
				0649	VK4Y2	56	58			Glas - GOLA BUS.			
					VK4DMI	59	59			Des -			
					VK4IT	59	57			Rob - Brisbane 146 SW			
					VK42SH	59	57			Steve - "			
					VK4ARH	59	59			Rod - "			
					VK42BV	59	59			Paul -			
					VK4TSM	59	59			Denny -			
					VK42BD	56	59			Ben -			
					VK4PU	59	59			John - QGGZ			
				0656	VK4JAM	55	59			Mick - NAR Brisbane 6EL-25W			
					VK42RA	59	59			Jim -			
					VK4H2	31	52			- (20)			
				0746	VK4DDC	59	59			Brian - own 941US -			
				0750	VK42AZ/M	31				Lance -			
				0752	VK42D0	55	56			- QGGZ			
				0753	VK4IT	57	57						
				0754	K6GDX	57	57			Fuel - Bonmar - (250)			
	835	SSB	80	1954	CM242	57	56			Gone - Habana, Cuba			
	479	"	80	2030	WS TEV	55	55			Woboy - S. TEXAS EL07 - 10W053 -			
	110	"	80	2037	K6PXT	57	58			Lee - 57.022-2414HF			
	0880	SSB	80	2050	WDS/K	59	59			Tom -			

70M

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2m 5180 - 16/4/20
Bany



DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
01/04/91	50.130	SSB	80	2213	FK8EM	57	57			RG 37 - Peter -			
	0110	CW	80	2312	VK8RSV	319	579						
				2344	VK8AH	575							
02/04/91	0805	SSB	80	0545	VK4BRC	57	57						
				0559	VK3DT	57	57						
	51.0110	SSB	80	1032	JH4H20	57	57			Shen - PH97 VK234			
	50.174	"	80	1103	JF6DOH	55	52			Shen - 1 QSB			
	0110	CW	80	1112	VK42JB	579	579						
	0110	SSB	"	2025	VK4HJ	57	55			Lenny -			
	0110	"	"	2029	WA8PPO	57	55			Glen			
	0805	SSB	80	2057	W5VY	57	57			Pet			
	"	"	"	2100	K1JEW	57	57			Ken (message to G3012/G4WPS)			
				2102	W5FF	57	57			Fred			
				2103	W5M2S	57	57			Lenny			
03/04/91	0105	"	"	1937	ZL2CDS	57	42					X	X
	0105	"	"	1940	ZL1AKW	52	52			Dave RF82			
				1943	ZL1T2A	51	57			Paul			
				2013	ZL4KIB	319	52N			Beryl - Nelson	OC		
	0160	"	80	2136	JA7QNH	57	57			TAC -	AS		
	01147	"	80	2315	F03BM	55	52			NR. Murem LTF2CW	OC		
	110	"	"	2328	PJ2BR	57	57			Brent Fik 52	SA		
	110	"	"	2326	PJ9EE	57	57			Cites - " "	SA		
04/04/91	110	"	80	0021	VV4DDIC	55	54			Murem -	SA		
				0148	TJ2NA	57	57			BRC	SA		
				0144	TJ2HL	57	57			Heinz			

2 0114

450 45 -

Trans - 46 GYC -

200000 - -

45 816M

UG - 78879900

11

Build New West -

1) 81900 Run around

Temp 8 days Temp -

K

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	JA3UT/2345 AFSA	COMMENTS NAME	QSL VIA	QSL S	R
04/04/91	0110	SSB	80	0155	T14THQ	59	59			2e H350V - 620R	EK70	Ajuna	X	
	28.470	"	"	1915	2R2f3a2Lu	56	55			403A2Lu			X	
	28.461	"	"	1934	52473i	55	47			Bill - W4Fen			X	
	50.110	"	"	2349	P12BR	59	57			Blair -	(Appt 4/10/91, 2004)			
06/04/91	28.454	"	"	0914	457NB	58	55	0938		unkn Du - Co Lombu	Sc. G. W. K. - double		X	
	.454	"	"	0938	2L1BWM	55	55			Don -	457 A 457 AR	2 STATIONS using ON GAMES		
	.454	"	"	0946	JA1NVF	59	59			KIT - NR Tokyo				
	.454	"	"	0957	W29CIC	59	59			Gene	JA1NVF			
	50.110	CW	80	1023	JH4ADK	579	33N			- HV4QSL				
	0110	CW	80	2015	V22Vi	539	30N			BNI - FK7B	(AB3u)	NA	X	
	108	SSB	80	2047	YS1ECB	52	58			EK53-R - EL SAWADU		NA-X		
	108	"	80	2050	PJ5EE	59	59			Chk - SP-726R		SA		
	110	SSB	80	2229	VK2FL	59	58					OC		
	140	SSB	80	2229	VK8ZLX	55	55					OC		
	110	"	"	2243	V73AT	55	55			Clis		OC		
	110	CW	80	2317	KG6DX	55N	55N			Joe Guam Q123		AS-A		
07/04/91	1005	CW	80	2359	JH1ECU	5NN	5NN							
				0031	V73AT	55N	55N							
				0034	VK8ZMA	55	55			Mike PH57				
12/04/91	28.445	SSB	80	0730	255BH	59	56			Andy -			X	
"	50.110	"	80	2159	KG6DX	57	55			Joe -				
	"	"	"	2208	VK2AMK	53	539			-				
	885	"	"	2230	VK4BRG	59	59							
	50.110			2256	ZL1ANJ	59	59			Martin -				
13/04/91	28.441	"	80	0818	3B8F4	55	55			Rachid - Can Boak			X	

Carroll Hill
→ 08:50
← 08:50

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FAS-FL 5398 / 23073 444

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	OTH	COMMENTS NAME	QSL VIA	QSL S	R
13/04/91	50.121	SSB	80	2132	V73AS	59	59			NEAS WALKER			
14/04/91	28.716	SSB	80	0628	9J52BO	59	57			BORAN - LUSANU % WARD BY MOSS, ENOMO, CA 91416		X	
15/04/91	4876	"	80	0604	9P5TE	55	55			Gus - % SMΦBFFJ		X	
	.496	"	60	0606	2SS7BH	59	59			ANDY -			
	.449	"		0754	H4PANO	59	59			MW - SUWOT CITY - 1km from Seoul			
16/04/91	.448	"	80	0607	W94CL2	59	57			Edic - NW Gaven Aguadilla,		X	
	.469	"	80	0952	IT9PKO	57	53			JOHN -			
	.494	"	80	1450	CN8CH	55	53			Ishtael		X	
	.505	"	80	1136	6W10B	55	55			HAROLD % DK3NP DAKAN		X	
17/04/91	0V-110	CW	80	1142	JAFWRC	55N	55N			AKI			
	"	"	"	1146	TR3KUR	429	53N			KEN			
				1148	JA3EGE	55N	59N			HIDE			
				1150	JE2QJ	55N	59N			PENNY -			
				1152	J130PA	59N	54N			BOB		X	
19/04/91	28.5038	SSB	80	2232	CX5BW	54	59			BERG - SOUTH AFRICA - NR. PRETORIA		X	
20/04/91	.4499	SSB	"	0700	ISΦJMA	57	55			ALLEN (HAWAII)			
"	.4515	"	"	0703	ZS6AKO	59+	58			PHILZ BILL			
"	0.110	CW	80	0807	NHGLT	55N	55N			JOHN - % WAZNHA (AHA)		X	
21/04/91	0.110	CW	80	0037	YK6JCP	55N	55N			(PETER - MESSAGE TO CN855)			
23/04/91	0.110	"	80	2115	WS6VE	319	52N						
25/04/91	28.481	SSB	80	0528	KB5LRO/KH9	59	53						
	" .885	SSB	80	1130	PY5CC	55	55						
	30.110	"	80	2039	T038m	52	41						
	0.105	"	80	2123	ZL3ADT	42	53			ROB /			
	" .105	"	80	2126	ZL1AKW	55	55			DAVE /			

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111

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT		TIME OFF	QTH	COMMENTS NAME	QSL VIA		QSL
						SENT	REC'D				S	R	
26/04/91	.105	SSB	80	21280	2L3 TIC	41	51						
				2129	FH5W0	59	59 ³⁰			Wlad ZELIC Luczen - (1400) NW 1730 707 7472 4201			
				2133	2L1ANJ	55	55			(4702-2053-2101 4350)			
	1042			2257	P29PL	579	58			(APR 07/08) QP130			
27/04/91	.110			2026	2L2R3i	529	579			AL-RE89			
				2029	105DL	599	599						
	.1193 CW			2220	AH6JJ/AHO	55N	55N			Saipen			X
	.120 SSB			2227	NH6JA1440	57	59			(JP?) JA1B1K			X
	1297			2227	VK4KAB	59	59			2001C - W. QNLHMO - 1000/600 QG2C			
				2233	VK2MCP	58	52			Brown - QF44 -			
				2236	VK4L20	54	59			Ross QH30			
				2237	VK4HT	59	59			Jenny QH23			
				2238	VK4GUN	54	53			Annie - QH80			
				2238	VK2BA	54	57			Dino - QF56			
				2239	V02B3R	52	52			Rob - QG61			
				2240	VK55NC	52	53			- QF02			
				2240	VK3DUT	57	57			-			
				2241	VK3A3Y	56	55			-			
				2242	VK3AK1C	59	59			QF11			
				2242	VK22XC	57	57						
				2243	KG60H 10W	59	59			Wend -			
				2245	P29ZG10	55	54			- GURDIN			
				2252	KG6DY	59	59						
				2319	VK5BC	55N	55N						
28/04/91	.105	CW	80	0023	VK6P17	55N	55N			Steve -			X

TOTAL MINUTES June 05 to June 28 = 1800

570

6
3420

is $\frac{24}{24}$
96

$\frac{48}{576 - 6} = 570 \text{ hrs} \times 60 = 34,200 \text{ MINUTES}$
+ 90

FM CARRY - 1321 MINUS

June 05 to June 28 1930 =

34290

$\begin{array}{r} 34290 \overline{) 88190} \\ \underline{68580} \\ 196100 \\ \underline{25740} \\ 171450 \\ \underline{246500} \end{array}$

$\begin{array}{r} 34290 \overline{) 836400} \\ \underline{685800} \\ 150600 \\ \underline{137160} \\ 134400 \end{array}$

$\begin{array}{r} 34290 \overline{) 88200} \\ \underline{68580} \\ 196200 \end{array}$

$\begin{array}{r} 34290 \overline{) 132100} \\ \underline{137160} \end{array}$

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT		TIME OFF	QTH	COMMENTS NAME	QSL		
						SENT	REC'D				QTH	VIA	S
28/04/91	0.115	SSB	80	0110	VK8GF	54/5	54/55		Geoff PG66			X	
	0.092	CW	80	0220	VK6PA	55N	55N		Steve -				
	0.110	SSB	80	0244	VK6PA	57	57		Steve OG89				
	0.885	"	80	2002	K2NV	57	57		John NV.				
	"	"	"	2008	2L2C0	57	57		BMI				
29/04/91	0.130	"	80	0026	VK6KXW	55	55		Peter - Peter + Norma -				
	0.140	"	80	0030	VK4NN	54	58		Brian - Anthony -				
	57.000	FM	80	0571	JG4JLP	54	54		AKI - TOKYO - All JA contacts - GMAO				
	57.000	FM	80	0573	HL4IZD	54	54		Chas - Seoul HL4IZD -			X	
	"	FM	80	0575	J51XRT	54	54		TAKA - F3 - FC785 / 504cc 4081 2:20				
	"	FM	80	0519	JF1NC5	54	54		SHAG - NR TOKYO -				
	"	"	"	0526	JA7QV	54	54		TAC - OM -				
	"	"	"	0528	JA3EGG	54	54		Ken -				
	"	"	"	0529	JA3UG2	54	54		Minou				
	0025	"	80	0530	JW1BPM	54	54		Hide - PM6G				
	28.480	SSB	80	0557	TK5BF	56	57		JACQUE - CASITA			N	
30/04/91	50.110	"		0424	J57N0W	57	55		QMO8 - HIRO				
	↓	"	"	0425	J870Q	57	59		QMO8 - TOSHI				
01/05/91	28.4618	"	"	1933	KK6ITMM	55	52		Dave - MM Reginald 2 - Peter				
					- END 2L6AAA -								

~~2/12~~

MUT over 88

11-0800-1102 (3:02)(184)
1534-1651 77

~~12-1100-~~ 40

15-1105-1145 183

1830-2138 90

16-1630-1700 180

20-1440-1740 132

2028-2240 92

21-0809-0941 63

1145-1248 111

1730-1941 (C 90)

25-0930-1100

(To June 23)

24-1826-1953

Even

23 0750-1234 (284)

1458-1530 (32)

1156 minutes

75

1231 minutes

90

1321

(284)

(32)

(316)

TO HR-OUT OF
25,920 POSS. MINS

7288 minutes + 445
(27.3%) NA alone

7733 TOTAL MINS
29.8% OF TOTAL TIME

June 05 to June 23-

24
18

192

24

432

60

25,920

0.0407
25920 115600
113680
192000

25,920 72880
51840

200400

201360

0.034

25920 88200
77760

104400

25920 77330
51840

254900

233280

NA 216200

BOTH

1528-1736 (128) (440min)

882min

(.034%)

(.017%)

(24) 1112-1520
1326-1830 (182) + 445 NA
7370 + " =

8260
445
7815 +

(25) 0750-1100 + 190
1830-2348 318

8248
445

(26) 1145-1200 15
1830-1840 10 → 7803

(27) 1019-1045 26 → 7824 Cms
+ 535

(28) 0706-1244 338
1514-1833 197
535 → 8364
455
8819

Rees-Coy-TMS

- #168-

TERCELA - ~~Rees-Coy-TMS~~

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
#1 06/06/01	111.0	SSB	100	1557	FC1LNU	55	55		IN 04 VANLO			X	
				1558	F1GTR	57	58		IN 96 JEAN				
				1659	F01GHP	57	57		IN 96 Peter - (1700) - 144.045				
				1705	F3IC	55	57		IN 96 - JACI -				
				1742	FC1BJD	44	58		IN 08 JEAN				
#2 1744				1744	E18EP	59	59		IN 84 ERIC - Davey -			X	
#3 1746				1746	G38J54	54	59		IN 89 SKD			X	
#4 1747				1747	Gw2HNL	57	57		IN 89				
				1759	Gw2DHT	33	55		IN 89 RC			X	X
#6 1819				1819	G54ICD	59	59		IN 89 - Jeff - - SP/EI.Su			X	X
				1829	G30IC	55	56		IN 91 - Mike -			X	X
				1831	G80FA	33	52		IN 91 G8 -				
				32	G6JON	55	56		IN 90				
				34	G3244	57	57		"				
				35	G4JCC	56	56		" 90			X	X
				37	G1KT2	59	59		" 70 Dave -				
				38	G7BXS	59	59		" 70 Bob			X	X
					G7BXS								
				39	G7FLI	55	58		IN 70				
				40	G4IGO	59	59		IN 80 - Ken				
				41	G40FE	55	55		-				
				41	G7GMD	57	57						
				42	G4UPS	55	57						
				43	G4GPW	57	55		IN 90 - Ben				
				45	G3SVL	55	55		-				
				46	G4CVI	59	59		IN 90 - Richard				

14 15

Date ~~FM~~ ERM NA BUL TOTAL

05	2217 - 0025 (128)	
06	0940 - 1039 (59)	
	1636 - 2003 (207)	
07	1905 - 2057 (112)	
08	1436 - 1527 (51)	
	2216 - 2230 (14)	
09	1522 - 1628 (66)	
10	0731 - 1216 (285)	
	1630 - 1909 (159)	
11	0745 - 1206 (FM) (261)	
	1500 - 1725 (FM) (145)	
12	0723 - 1917 (714)	
13	1433 - 1505 (32)	
14	0755 - 1610 (445)	
15	0905 → 2345 (FM) (880)	
	(FM)	
16	0805 → 0900 (+) (105)	
	1630 → 2355 (FM) (445)	
17	0930 → 1000 (30)	
	1134 → 1157 (28)	
	1646 - 1735 (49)	
18	0845 → 1111 (146)	
	1553 → 1730 (97)	
19	0703 → 1108 (245)	
	1430 → 1818 (228)	
	2212 → 2225 (13)	
20	0725 → 1106 (221)	
	1435 → 1757 (FM) (202)	
	1917 → 0024 (FM) (307)	
21	0809 → 1248 (279)	
	1546 → 2357 (485)	
22	0728 - 1043 (195)	
	1410 → 1902 (292)	
	(316)	

1640 - 1802 (82)
 2142 - 2200 (18)
 1358 - 1410 (12)
 2050 - 0013 (203)

1640 - 1802 (82)
 2300
 2050 - ~~2057~~ (130)

NA Above
 3
 18
 12
 73
 58
 158
 126
 445

1142 - 1240 ← (58)

1430 → 1818 (228) 1430 → 1818 (228)
 2242 - 0050 (158)

(440)

(128)
 82

7288

Am 68- -98138-

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS NAME	QSL VIA	QSL S	R
06/06/91	0.110	SSB	100	1846	G8RCK	55	55		Io90 Roy			
				1847	G3W05	57	53		Io91 -			
				1850	G4LDR	33	54		Io91 -1			
				1851	G3IMW	55	57		Io80 -			
				1851	G3IBi	55	53		Io90 -			
				1852	FGHRP	54						
				2152	VE1XDX	59	59		FN84 - Mike		X	X
				2154	VE122	55	55		- JAC			
				2156	VE1MR	57	53		FN84 - Ben ¹⁰⁰⁴ (H476 w/c152)			
				2211	VO1QF	55	55					
				2218	VO1QF	57	59					
				1 hr - ie 2115								
07/06/91	0.110	SSB	100	2117	CT4KQ	55	55		SEAFB BP		X	
				2134	VE1XDX	52	52		Mike -		X	X
				2145	VE122	52	53		JAC -			
				2159	K1TUL	59	53		bff FN53		X	X
				2200	K1TUL	59	59		- me		X	X
				2202	K1GPS	57	57		FN44 - Clem - me		X	X
				2203	WA1HND	55	36		FN31 -			
				2206	VE122	59	59					
				2206	VE1XDX	59	59		WA4PC/NP9			
				2208	WA1T	57	57		AL NIT - FN43			
				2210	K8MFO	55	65		EN90 -			
				2211	W3JO	57	65		FN24 - Joe /			
				2212	WA4WJX	67	57		- ma -		X	X

48

47

48

-4M68-

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
				2213	WA2FVZ	53	59			FN22-		X	X
				2213	K3MLD	59	59			FN10-			
				2214	WD8ISK	59	57			EM79 ohu			
				2215	KM1E	59	59			FN53-ME Bim			
				2215	K3QMX	57	58			- Citrus			
				2215	WA8RL	59	59			EM79 of Hawaii			
				2216	W3IWY	57	57						
				2218	W2IDZ	55	57			ED-FN2 NJ			
				2219	W2CAPA	59	59			FN41-Steve-			
				2219	W28D	59	55			EM79 ohu			
				2220	WA2QCE	59	59			FN20		X	X
				2221	WA1AYS	55	55			FN42-Ma. Steve			
				2222	K2JRW	57	59			FN32-Ruc-			
				2223	N8AYA	55							
				2224	W3VIR	57	43			FN20-			
				2225	KAHSCQ	55	55			FN32-		X	X
				2226	K8WKZ	59	57			EN72 Mich.			
				2227	N8AYA	57	529						
				2231	WB8TDG	55	54			79-			
				2232	WW8M	57	55			EN72-Mich			
				2233	WB4WYE	55	55			FN23-Hawaii-NY			
				2236	W1AJR/B	55	57			EN91 oh Amy			
				2237	KALJMY	55	55			FN42			
				2238	N2IXA	53				FN21			
				2240	N1DGO	53	53			FN41			

-FM68-

25

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
				2241	K5CM	539	539			Conane - OICLA.			
				2242	W3GWF	54	52			FN 20 -			
				2243	N5KJW	57	55			-			
				2243	K5SW	57	49			EM 25			
				2244	VE1YX	55	579						
				2246	N2AVR	53	55						
				2248	K11KJ	58	57			FN41 - Mick - RI			
				2250	W1WHD	55	52			Run C.T.			
					KAZMM	51	57			me FN 54			
				2252	WABHTL	55	55			Over Mick		X	X
				2253	CT4LN	55	55			IM67			
				2256	K3M4D	57	57			Just in			
				2257	N2BFS	57	56			FN30 - L.F.			
				2258	W4DR	53	53			FN17 - (V6)			
				2300	K41MFA	56	56			- Done			
				2301	K4DAT	56	55			FN32 - Kan -			
				2302	WB2C2B	56	55			FN21 -			
				2303	NE8I	58	55			EN82 Mick			
				2304	W4DR	55	54			-			
				2305	WE4N	33N	51			-			
				2313	WE4N	53	57			-			
				2314	N2WMM	53	55						
				2315	WB2MAI	53	52			FN30			
				2316	K23H	53	54			FN19 M.D		X	X
				2317	WD3R	33	35			FN21			
				2317	WB4DBB	52	52			FN07 -			

144
53

F

Perceira - Hn63

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	OTH	COMMENTS NAME	QSL VIA	QSL S	R
07/06/91	50.104 ¹	SSB	100	2320	12240F	42	52						
				2321	N2AA ¹	33	52		WNY				
				2325	2322 - WKNLY ↓								
				2330	W440 B ¹	529	529						
				2342	W2IDZ	55N	55N						
				2357	N4CFL	52N	52N			(#105)			
				0008	VK3AKK	54	54		300N/4EC 901				
				0735	CTI DIO	59	59						
				0906	9H5 ET	58	58			Luis IM59PF + 9H4CM			
				0922	9H4CGN	59	59			JM75 / BELAN / 20 minutes -			X
				0933	9H4CM	57	59			28.885 Joe / M20150 FV80			X
				0820	IK501Y	55	55			Charlie JM76 / G030			
				0835	FK5NTE	529	55N			NTS2			X
				0952	9HJ85	57	59						
				0959	9H5AB	57	57			JM75 PAUC (TWO NE- 14.345)			
				1002	IK4CB0	55	53			CARMEN			
				1004	9HJGB	57	58			JNS4 -			
				1007	9H1FL	33	54			JM75 - MAS			
				1028	9H5ET	32	51N						
				1055	IK2GSO	59	59			JN45 (JM45)			
				1056	J2 FHW	57	53			JN45			
				1105	IK2GSO	58N	55N						
				1649	2828L	59	59			JN45 - IM76HE			X
				1623	280T	59	59			MARK -			
				1654	FGGMP	529	529						

#10

#9

#10

#11

67

20

ET ØAR INGE

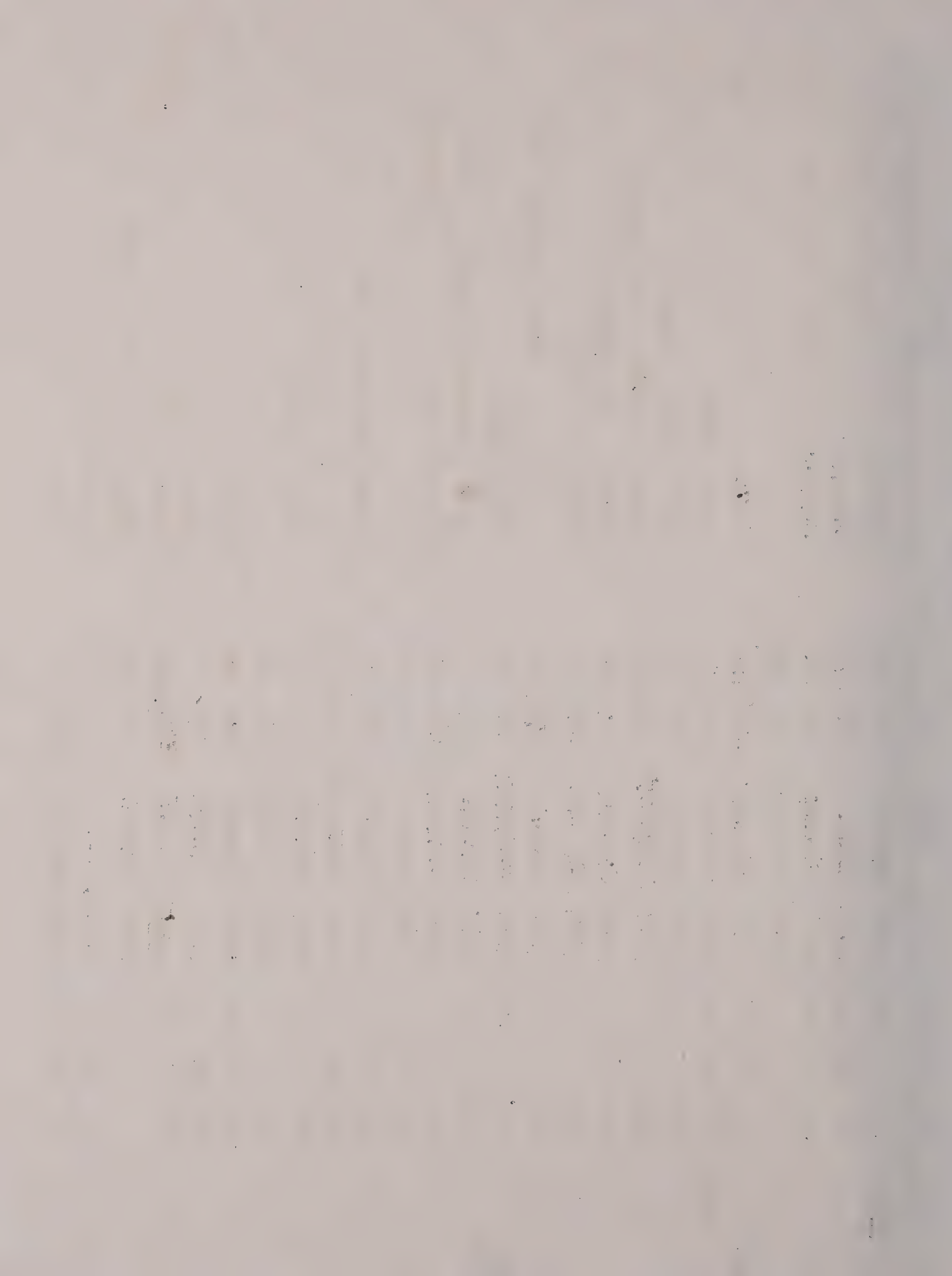
HMG 8

DATE	FREQ.	MODE	POWER	STATION WORKED	REPORT		TIME OFF	QTH	COMMENTS NAME	QSL VIA		
					SENT	REC'D				QTH	S	R
(12) 12/06/91	.110		100	9H5ET	53	55			BRYAN			
	.110	SSB	100	ZB2BC	59	59			Jimmy -			
	.110	"	100	EI4DQ	59	59			Eastwin - Turn Bow Loop			
				GU1DWO	53	55			FO72			X
	0110	CW	100	GW3XYW	55N	43N			JN70 BOPB			
15/06/91	0110 (.110)	SSB	100	IBWES	57	57			JN70- Carlo Napier -			
	.109	"	100	IBTWK	57	55			JN61 ENRICO - 2 mtr ok -			
	.162	"	"	IK0BZY	55	58			JN61 AL Rome			
	.162	"	"	IPAMU	57	58			? FV61? (JN61)			
	.162	"	"	IP LBIK	56	56			144.290 0730 145/			
	.125	"	"	ZBPW	58	56			144.290 0730 145/			
	.151	"	100	EAGDFSTJ	52	51			144.290 0730 145/			
	.110	"	100	SV1DH	57	57			BALAZZ ISLANDS			X
	.110	"	"	CT1BXT	59	59			KM27 - Antenns - CUSTA 25W 50C			X
	.110	"	"	EA4	5N	5N			(EM53?) ROD - (2743m3)			
	.105	CW	"	SV1VY	55	55			Jorge / KM17N - 30C			
	.105	SSB	"	SV4 AHP	52	55			/			X
	.105	"	"	SV1EF	52	51			Leecu - KM13			
	.105	"	"	SV1EN	56	59						
	.105	CW	100	FG8SJ	32N	57M			JN26			X
	.105	SSB	100	9H1BT	59	59			PAUL			
	.105	"	100	9H5EE	52	41/59			(PAUL -) JOHN			✓
				9H5ET	55	53			BRYAN - (60-65 mtr)			
	.105	SSB	100	SV1VS	55	55			KM13VA			
	.180	SSB	100	PK44BHU	57	57			JN64			

(12)

#13

#14



AM763

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
15/06/91	150.0180	SSB	100	1749	I4 CIL	58	58		JN64 -				
	180	"	100	1750	DK2 WY	56	59		JN58 - Muntent			X	X
				1757	F4NIT	57	58		JN64CS				
				1752	OESPAM	57	59		JN78 EE AUBAUT			X	
				1753	OESMSM	58	59		JN78 BE Mike				
				1754	PK4 DRY	57	57		JN64 -				
				1755	OEGHHV	57	57		JN47UJ/				
				1756	OEGHAF	56	59		JN76 Treasoy				
				1757	DL7AV	58	50		JN58			X	Y
				1759	9H4BT	59	59						
				1759	OEGMDI	57	59		JN47 Fren				
	180			1800	DF7RG	59	59		JN68				
	180.7			1805	OECAL	58	59		JN67 - Walter -				
				1806	OEC2KMM	58	59		JN67 -				
				1808	I2FKIF	55	56		JN45MM				
				1809	I2J5SB	59	59		JN45 George -			X	Y
				1811	IK2AEQ	57	55		JN45 Luca				
				1814	I2OKW	57	55		JN45				
				1815	OEGEMI	55	55		JN47VL				
				1816	IK2ZWT	57	55		JN55FT				
				1818	IK4HSS	55	55		JN35UB				
				1819	F6GPNP	57	58		JN49				
				1821	PK3GES	57	57		JN65CP				
				1823	OEGFKI	58	59		JN47TG				
				1824	OEGUKL	57	59		JN67LY				

#15

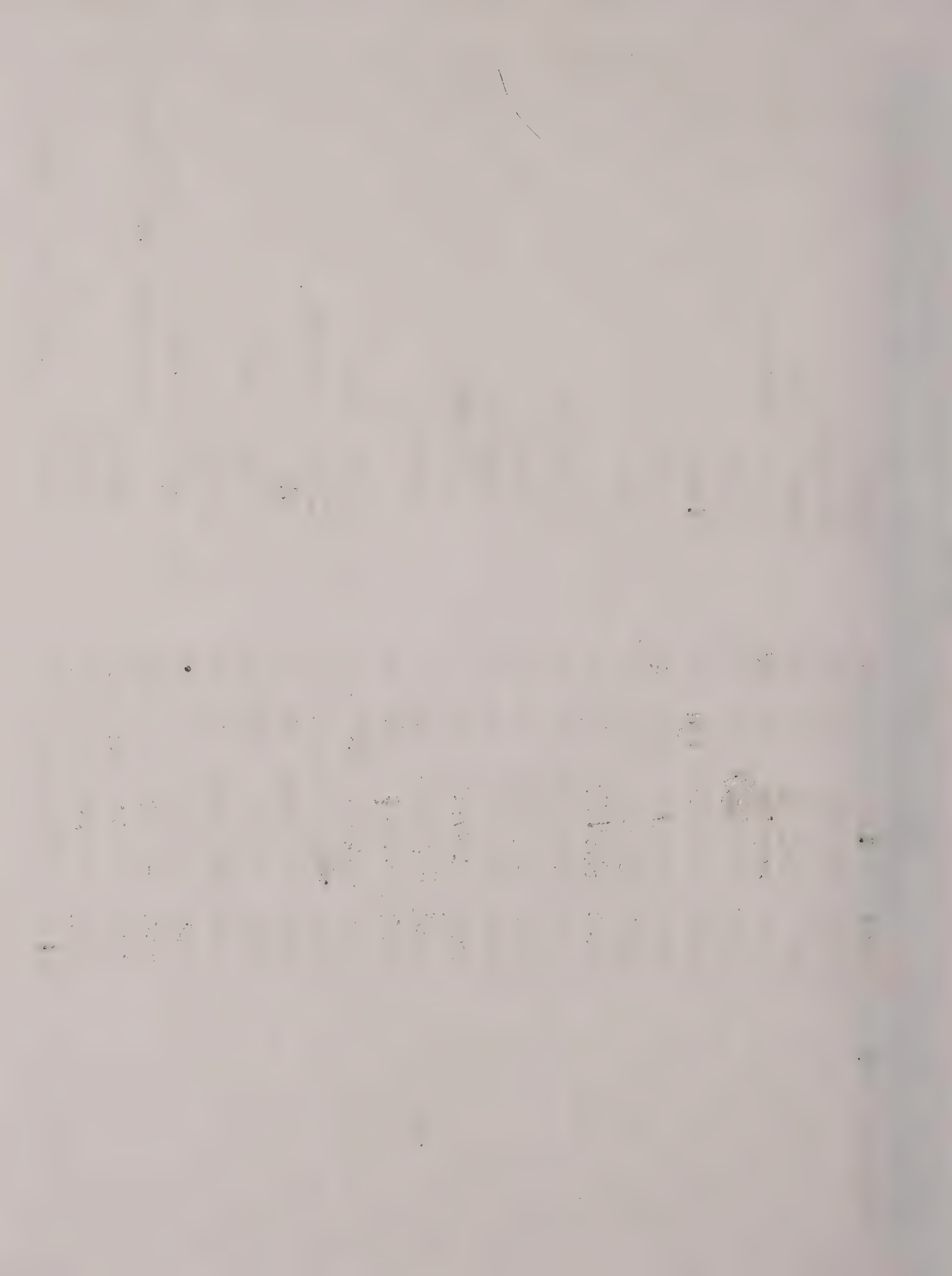
#16

AM68

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
190619	0.1507558	SSB	100	1825	OE9 ERC	59	59			JN47VL Eric			
				1827	DL3RBH	58	57			JN68			
	.1507558			1845	I32NF	59	59			JN55VS			
				1848	OE5EYM	57	53			JN68			
				1850	OE6MGG	56	57			JN76 RY WOLF			
				1851	IK4JDP	55	55			JN54			
				1852	IK2GSV	58	59			JN55			
				1853	IA XCC	56	55			JN63			
				1854	DL3RIK	56	57			JN57 -		X	X
				1855	IA I2MWS	56	59			JN55			
				1855	OE5LJM	56	57			JN78			
				1856	I4RS#	56	55			JN64			
				1900	DJ8VY	56	56			JN68 AA			
				1901	ISCTE	59	59			JN53 XG Peter 690-2 - Amy			
				1903	IK2JYI	58	55			JN45			
				1904	I4XCC	57	56			JN63			
	.153			1918	IK8AEQ	59	59			LUCA			
				1920	F6 GNT	59	55			MARCUS-JN25			
				1921	I1ZFT	57	58			TUGAN JN35UA Joe			
				1926	OE6LOG	57	57			- JN76TV - OT			
				1928	FE1JGA	55	57			- JN05 Charlen			
				1929	F3CL2	57	53			JN55			
				1930	IK2JUB	55	55			JN45			
				1938	IK3 PDA	57	57			JN65AB			
	.157			1940	OE2JG	57	57			JN67 Joe			

HM68

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT		TIME OFF	QTH	COMMENTS NAME	QSL VIA		QSL
						SENT	REC'D				S	R	
15/04/14	50.157	SSB	100	1943	① TK1LGY	56	58		JN44				
				1944	TK4CBO	57	59		JN54 DS				
				1945	IK20150	59	59		JN45	Bob			
				1947	G4USB	55	59		IO70	NORMAN -			
				1949	EA8	55	52		IO51				
				1948	TK4ADE	58	59		JN54		X	X	
				1951	ISMX X	57	58		JN53				
				1952	IK2DDR	59	59 ²⁰		JN5-				
				1953	EN3VFP	59	57				X	X	
				1954	I4 DWE	59	59		JN54 ES				
				1955	IY AYP	57	55		JN64				
				1956	I 2 YPY	56	57		JN55 JD		X	X	
				1957	FINAI	58	58		JN35		X	X	
	.157			1958	I 4 XGR	56	56		JN61				
				1959	TA8AF	55	58						
				2029	FC1BUN	58	59		JN94	John			
				2031	FC6GA	57	57		JN67	Lawrence			
				2032	FC1BYM	58	59		IO44				
				2033	G7ANV	57	56		IO70	TUNY			
				2035	G1SDX	57	56		IO70				
				2036	G1KIT2	57	55		IO70 TM Done -				
				2037	G7BXS	57	55			0800 - 1000 HN35I/IO44			
				2038	DJ10J	55	57		JN58				
				2039	FC1GM	57	57		JN05				
	.110			2001	FC4GXX	55	55		JN95	10W/SEL Farc			



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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
15/06/91	50.110	SSB	100	2106	FGHRP	55	57			IN 88 Alex			
	4			2108	FGGMP	55							
	.110			2109	G18AT2	56	57			IO64XM Jan		X	
	1			2111	OE4WHG	53	53			JN87			
	.105			2118	G4HFD	53	54			F070-Martin 40/sec			
	1			2124	G7FKG	57	59			IO70-ALAN 30/4el			
				2127	IN3GB0	56	59			IN660A Jve - wine - 10w/sec			
				2130	PCILFT	56	56			IN88			
				2134	F2LQ	55	58			IN98EB			
				2135	G4MAW	42	52			F080 FIC			
				2309	FGGNP	55	57						
				0947	OZ1FTE	55	58			MOAT - 250W-7el		X	
	.1303			1559	LA2FGA	59	59			JR40DM		X	
	.127			1558	O42TJ	59	59			KP2W - O42BC-		X	
				1601	O42BC	59	59			KP2W -			
				1602	LA98M	59	59			JP40			
				1603	SM6HYG	57	57			JO58		X	
				1604	O43MF	59	59			KP2WFA			
				1605	E14AE8	57	59			IUG3RL			
					FGGMP								
				1607	GW4B2D	57	55			IO73			
				1608	GM4JGS	56	56			IO75			
				1609	LA92V	57	59			JO59		X	
				1610	GL4IN	59	59			JO93			
				1610	G1A4M	59	59			JO83 JO84			

#18

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#22

4M68

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
161601	.127	SSB	100	1611	GW4CXO	57	57		7081				
				1612	0422 AMK	59	55		16019 16019				
				1613	EISFK	55	55						
				1613	G03 AHV	59	59		7074			X	
				1615	SM4BRD	59							
				1616	G1SWH	55	59		7083				
				1617	EI9BG	59	59		1M27C TOM				
				1619	GW4EAI	58	57		7081				
				1620	GW6VZW	55	55		"				
				1621	G0JS HC	55	59		7083 West			X	X
				1622	G7ELC	59	58		7092 US Neil				
				1623	G3HBR	57	57		" 91 BARN				
				1623	PA400S	57	54		7033			X	
				1623	G8BMJ	59	59		7083				
				1624	G3RFS	59	58		" 91				
				1625	G3NAQ	59	56		" 91 HL				
				1627	G3NSM	59	59		" 91				
				1628	G1SSL	59	59		" 91 Bu Melvyn				
				1629	G3IMV	59	59		" 91				
				1629	G1M2D	59	58		" 920B Dove				
				1630	G1 984	57	57		" 91 Citrus				
				1631	G4GIL	57	59		1192				
				1632	G3TXN	55	53		" 91			X	X
				1633	0425X	57	59		KP20				
				1634	G3oic	57	59						
1636					G4CCX	55	55		7091	Paul			

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#24

AM 60

1272-0830/0

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	YU/HV	COMMENTS NAME	QSL VIA	QSL S	R
160451	0127	SSB	10W	1637	G8 JDX	59	59			J070 - Dave	Ben 144.985			
				1641	G4 MUV	59	59			J080 - Mike				
				1642	G4 GEID	59	59			J091 - Dave				
				1643	G1 SDX XH	55	59			J070 ZW				X Y
				1644	G4AHN	57	55			J091				
				1644	G6 LLS	56	55			"91				
				1645	G8DVR	57	58			"83				
				1646	G4UPS	58	59			TEP-				
				1647	G2 10V	55	55			J091				
				1648	G4F4D	56	59			J083				
				1649	G4HBA	57	59			J080 Rosen				
				1650	SMD MEM	55	55			J099				
				1651	G54ICD	59	59			- Jeff				
				1652	G3C0J	57	52			J091 - Brian				
				1653	G3SVD	57	53			J091 -				
				1654	G4 PKF PKF	55	57			J091 -				
				1655	G8GXP	59	59			W93FB				
				1655	G3PFM	59	58			W8U				
				1656	G4MSM	59	59			"70XJ RN				
				1657	G4 DJI	55	55			J0601				
				1657	G4TIF	57	55			J092				
				1657	G32SS	59	54			I. (Peter)				
				1719	FCIPAN	57	58			JN88 CB Farmers West of				
				1911	SM194H	55	55			J097 BRIT				

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HMG8

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
16-06-91	50.	SSB	100	2010	LAGDL	55	57		J059				
				2011	G4iFX	57	69		I094				
				2012	OH3XA	56	57		KP20GG				
				2014	O21BVW	55	57		J046				
				2014	O21JXY	56	55		J046				
				2016	O24WV	55	52		J065				
				2017	SM7FMX	55	55		J059				
				2019	LAGLQA	55	55		J045				
				2019	O21ELF	57	55		J065			X	X
				2114	SM7FJE	55	55		I093-				
	.1149			2125	G2ADR	57	47						
	28.885			2128	W8VCU	57			6 very quiet / 2118				
	28.885			2201	K1JRW	57			185/04/02				
	.4846			2208	W8G:O	57	55		nice Mtd. 25W/THURS				
	.4846			2357	ZL2CD	55	44	2219	PAUL 105BA3 (NWSG) / KATHY / WVA				
17/06/91	.885			0002	VK3VEN	53	52		17/53/29/15				
18/06/91	.492			0007	ZL1AUP	54	52		MARSHT - Melbourne - 2005				
	"			0035	ZL1ATE	57	59		MARS - NR Hamilton - 12°C - Cold wind - 3eLX				
	28.147	CW	100	0035	ZL1ATW	57	59		QRP - 4W				
	"	"	"	1558	FLGNP	53	53						
	50.1303	SSB	"	0733	G4NDG	57	55						
19/06/91	.110	CW	100	0735	G4WPS	55	56						
	"	"	"	1443	WB2TB3	32	54		FN20				
	"	"	"	1446	W2GWF	55	55		FN20 ED				
	"	"	"	1449	VR1XX	57	55		FN74 B0B				

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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT		TIME OFF	QTH	COMMENTS NAME	QSL		
						SENT	REC'D				QSL VIA	S	R
19/06/91	20.110	CW	100	1453	W3J0	35N	SSN						
	.110	SSB	"	1456	K3MYO	56	55						
	.110	"	"	1459	W3IFM	33	41						
	.110	"	"	1820	KA1C02	55	33			FN42 NH			
				1823	VE122	55	55			JACK			
				1825	K1JRW	55	53						
	28.885	"	"	2225	W2CAP/1	57	57			STAC -			
20/06/91	50.110	"	100	0455	G34UCO	57	57			JEFF -			
	.110	CW	100	1023	F1FHi	55N	55N						
	.110	CW	100	1027	DL7AA	53N	53N						
	29.885	SSB	100	1513	K1JEW	57	57			1230-1330 HAM 48.25			
21/06/91	50.105	CW	100	1533	Y43OV	33N	33N			YUGOSLAVIA			X
	.105	"	100	1538	Y43NF	33N	58N			JULY 5?			
	.109	CW	100	1546	Y43AN	33N	32N						
	.110	SSB	100	1553	FC18YM	57	57			CHAS			
	.110	"	"	1556	Y43AN	42	55						
	.115	"	"	1600	Z8BT	59	59			MARK - 2nd V - June 15 7N N Europe - 40min			
	.1595	"	"	1623	FK2DDR	55	59			JN55 -			
	.110	SSB	"	1724	Z8BT	56	57						
	.160	CW	"	2142	IKSEAR	35N	55N			JN53 -			
	28.885	SSB	"	2200	W3IMU	57				HAB			
	"	"	"	2213	W2CAP/1	59				STAC			
21/06/91	50.105	SSB	"	1120	Y43ZM	55	57			J			
	.110	"	"	1812	ON1C00	59	59			JO20			X
22/06/91	.110	"	"	1813	ON4ANT	58	59			JU20			

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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT		TIME OFF	QTH	COMMENTS NAME	QSL VIA		QSL
						SENT	REC'D				S	R	
	110	SSB	100	1813	LX1JX	57	58		JO 30				X
				1814	DJ9 KG	59	59		JO 42	ALAN			
				1815	PA3DY5	59	59		JO 21	Fred			
				1816	DK3 RV	59	59		JO 21				
					DK2 PR	59	59		JO 43				X
				18	DK7ZB	57	58		JO 57				X
					DJ3 GR	59	59		JN 49				
				19	DJ6 MH	59	55		JO 31				
				20	DK6 AS	59	59		JO 52				
					621BNW	57	55		JO 45				
				22	PA2VST	57	59		JO 21	181			
					PA1LNK	56	58		JO 21				
				23	PA3ECU	56	57		JO 32				
				24	PA1ABD	55	57		JO 20 XV				X
				25	DK1PZ	56	56		JO 41 TH				X
				27	DJ6 RM	55	55		JN 59				
				27	DJ8R2	55	55		JN 59				
				28	DF7VX	57	57		JO 41				
				29	DL2NO	57	59		JO 43				
				30	OE5OJL	53	55		JO				
				31	PA3ENI	56	56						
				32	FLAKE	57	57		JO 97				
				33	CT1BH	59	59		IN 100	Tom			
				34	ON4 KST	59	58		JO 20	ALAN			
				35	ON1ANK	59	59		JO 21				
				36	ON1APG	57	59		JO 20 AT	GENTIL			

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June 21, 1981

ENG - 67	
USA - 59	
Italy - 56	
Germany - 29	
France - 26	
Austria - 18	
Netherl. - 11	
Denm. - 7	Malta - 7
Finl. - 6	
Greece - 6	
Sweden - 6	
Belgium - 6	
Ireland - 6	

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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
	80.105	SSB	100	1838	PA4HJZ	57	57		Jo21				
				39	DK9KX	57	59		Jo30				
				40	DJ9ON	57	57		Jo31NA			X	X
				41	DL4RU	57	59		JN69				
				42	FC10VI	57	57		JN05				
				43	LX1Si	57	57		JN39CQ Marc				
				44	PA2HJS	57	57		Jo20				
				45	DL9GU	55	57		—			X	X
				45	DJ3TF	59	59		JN59				
				46	DL8RM	559	55						
				48	ON11M	57	55		Jo11				
					PA								
				48	HL4WJ	57	57		Jo10				
				50	PA6AMX	55	59		Jo20				
				51	FC1BLL	57	59		(JN23?)				
				52	DL7ARM	57	57		Jo62			X	X
					DF9YCE	579	59		Jo4				
				57	FC1E4B	57	59		JN23				
				56	028RX	57	59		Jo55				
				58	FC1JG	59	59		JN23HQ				
				58	FL6PE	57	59		JN23 GFL				
				59	021LO	55	53		Jo55				
				190N	PE1DCY	55	55		Jo22				
				0757	PA3DOL	55M	59N		Jo33				
				0759	GH1FUF	569	57N		Jo01				
22/06/91	80.110												

(344 TUFFA)

Amge2 -1D

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
22/04/91	1.1W	CW	1W	0800	G3RFS	SSN	SSN						
				0802	PAORDY	SSN	SSN						
				0805	DLSBAW	SSN	SSN						
				0807	G3SYC	SSN	SSN			ide			
				0812	G3WOS ^{dup}	SSN	SSN						
				0815	G4EVI	SSN	SSN			1093			
				0820	G3GACD	SSN	SSN						
				0827	G4GON	SSN	SSN						
				1420	PAQFM	SSN	SSN			Ju2u			
				1424	OT74D	SSN	SSN						
				1533	W4AMS ^{dup}	SSN	SSN			FN42 - Steve 1D E mass			
23/04/91	1.10	CW	1W	1531	W2CAP ^{dup}	SSN	SSN			Steve			
	1.10	"	"	1600	N1DIB	SSN	SSN						
	1.10	"	"	1634	K320	SSN	SSN			FM18 MJ - Fred (not tx)		X	X
	"	SSB	1W	1642	K44B	SSN	SSN			1 JOHN		X	X
				1644	W4 GNS	SSN	SSN			FM20			
				1645	W3 IFM ^{dup}	SSN	SSN			FM19 -1D			
				1647	N4 JQQ	SSN	SSN			FM18-			
				1648	W4BDMF	SSN	SSN			FM18		X	X
				1649	K3H20	SSN	SSN			FM18 - HARRY		X	X
	1.10	CW		1711	W30TC	SSN	SSN			FM19-			
				1716	K1HVV	SSN	SSN						
				1718	N4MM	SSN	SSN			FM		X	X
				1725	W322	SSN	SSN						
24/04/91	1.10	SSB	1W	1510	FG GNP	SSN	SSN			Michael			

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(354)

(355)

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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
24/06/91	50.110	SSB	100	1520	F1NWL	329	SSN						
	5.110	SSB	100	1839	E17GB	56	58			1057 J04W / 4Watts / 1/2 duplex NA Cont			
	0.110	"	100	1848	E16AS	57	59			ALBERT - Dublin			
	0.110	"	"	1854	G1410W	55	33			J064W			
	0.110	"	"	1855	E15FK (AK)	59	59			J057 Charming Cont -			
	0.110	"	"	1859	E15FK 3JGG	33N	53			CU/SSIS - W3N			
	0.110	"	"	1911	SM7AED	58	59			J066		X	X
	0.110	"	"	1912	0210F	57	57			J046			
	0.110	"	"	1913	029Ni	59	59			J0650J			
	110	"	"	1914	021EKi	59	59			J045			
	110	"	"	1915	021BUR	56	57			J046			
	0.110	"	"	1915	021DJJ	55	55			J0			
	110	"	"	1917	SM7FMX	56	55			J065		X	X
	110	"	"	1918	025P3	55	55			J065CS			
	110	"	"	1919	021JEP	55	55			J065 (JEP)			
				119	02773	56	55			J065DP			
				120	024W	57	59			J046			
				121	SM7JUP	55	59			J069			
				"	025SP	56							
				021	021BNW	55	55						
				023	021BVW	59	59						
				024	021JSP	56	59			J065			
				024	024GA	57	59			J065			
				025	GM1EHK	56	59			J086JE Duro			
				026	SM7CMV	55	58					X	X
				028	021CDE	55	57			J065			

24/06/91

24/06/91

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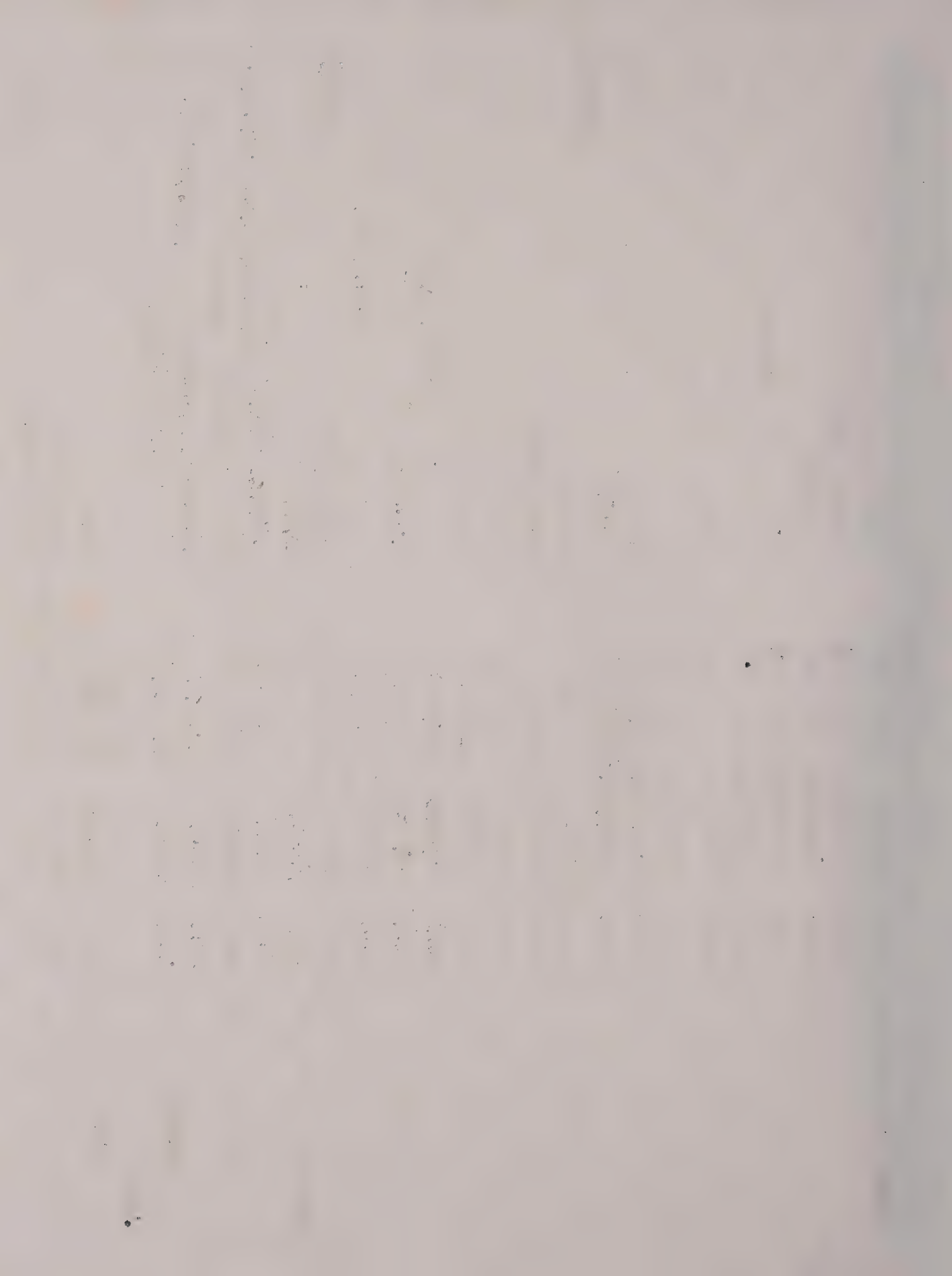
DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	QSL R
24/04/11	1100	SSB	100	1929	021 FDI	57	56		J065 FA				
				1930	SM7 SCS	55	55		J065 SCS				
				1937	021 FPH	59	59		J065	Clans - 4ec			
				1938	GW6 ETM	58	58		J081 JP Jeff				
				1938	SM6 FH2	58	59		J067				
				1939	GW6 EHi	55	55		J081 JP Run				
				1940	SM6 KJX	57	58		J067 Jon				
				1942	SK7 NMA	59	59		J065				
				1945	SM7 SM7	5NN	5NN		J085			X	X
		CW	100	1947	SM6 PU	59	59		J085 J067				
		SSB		1948	SM6 CY2	59	59		J066				
		11		1948	DL8 HC2	55	55		J053			X	X
				1949	SM6 ES6	57	58		J067 CC				
				1950	GW8 ELR	55	57		F071				
				1954	SM6 CKU	57	59		J067				
				1955	SM6 BJI	56	58		J057				
				1956	021 ABE	58	59		J065				
				1956	DL8 LAQ	55	58						
				1957	G6 NFH	55	55		F081				
				1958	G7 BXS	57	57		-B0B	-G14 PP-			
				1959	G6i EK	55	59		J070 VJ				
				2001	G1W UN	55	59		Iu81				
				2002	SM7 SM7 FJE	58	59						
				2002	G7G DY	58	59		J080 QW				
				2004	G1K G1K T2	55	55		Ju70 Dave dm			X	X
2003				0241 PU		57	59		Ju57				

70V
2L3A
0L7A

- HNCB -

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
24/06/91	6.110	SSB	100	2005	G4UPS	SS	SS		Top				
				2007	G1PRE	SS	SS		JU70 Ken				
				2008	OZGABA	SS	SS		J057PS				
				2009	OZ3FYN	SS	SS		.	Blank		X	X
				2010	G3K0X	SS	SS						
				2011	G8JDX	SS	SS		dur				
				2012	G25KW	SS	SS						
				2012	OZ1ZB	SS	SS		J055			X	X
				2013	SM7DKF	SS	SS		J055			#415	
	.105				OZ1		SS						
				2105	G7FLI	SS	SS		J070				
				2109	G30IL	SS	SS						
				2112	G8P4P	SS	SS		J090				
				2113	G1SMD	SS	SS		-	G1SMD QRP			
				2114	G41GO	SS	SS		J080NW				
				2116	G3244	SS	SS			G14PD/WAT			
				2117	G60FE	SS	SS		J090 Jim			#418	
25/06/91	50.110	"	100	0919	FINWK	SS	SS		JN97				
				0921	F1FAI	SS	SS		JN9760 - J014W / 100				
	28.490	"	100	1433	VPRCY	SS	SS		FL12 - ANGULA - 4395L			X	
				1443	Cu20X	SS	SS		Francisco - San Miguel	145075U		X	
	28.885	"	100	2245	K4CKS	SS	SS		(K03) 123/A15/				
28/06/91	—												
	50.110	"	100	1653	SV10H	SS	SS		Costa				
	110	"	100	1658	G4PBF	SS	SS		J082 Russ				
	.110	"	100	1659	G4ING	SS	SS		J082 - GRAMM			#420	

+2
+6



8248

420

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
June 28	50.110	SSB	100	1659	9H3CE	SS	SS			(J040DH)			
	1330	SSB	100	1709	G8SHX	SS	SS			JU83			
	115	"	100	1729	DJ2RE	SS	SS			JN49HS KCms			
	115	"	100	1730	DL5FCJ	SS	SS			J040DH -			
				1733	05740 ^{down}	SS	SS			JU10			
				1734	PE1LVS	SS	SS			J0210			
				1734	SM6CMV	SS	SS			JU57			
				1735	FG8FHT	SS	SS						
				1736	OT8 RIF	SS	SS			J021			
				1738	ON4PS	SS	SS			J020			
				1741	PA3ANV	SS	SS			J032 Gen			
June 29	0830-1130				NO SIGNALS								
					TEAR DOWN, OFF 6-1143 UTC			29/06/91					

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Allocation of International Call Signs

Call Sign Series

Call Sign Series	Allocated to
AAA-ALZ	United States of America
AMA-AOZ	Spain
APA-ASZ	Pakistan
ATA-AWZ	India
AXA-AXZ	Australia
AYA-AZZ	Argentina
A2A-A2Z	Botswana
A3A-A3Z	Tonga
A4A-A4Z	Oman
A5A-A5Z	Bhutan
A6A-A6Z	United Arab Emirates
A7A-A7Z	Qatar
A8A-A8Z	Liberia
A9A-A9Z	Bahrain
BAA-BZZ	China
CAA-CEZ	Chile
CFA-CKZ	Canada
CLA-CMZ	Cuba
CNA-CNZ	Morocco
COA-COZ	Cuba
CPA-CPZ	Bolivia
CQA-CUZ	Portugal
CVA-CXZ	Uruguay
CYA-CZZ	Canada
C2A-C2Z	Nauru
C3A-C3Z	Andorra
C4A-C4Z	Cyprus
C5A-C5Z	Gambia
C6A-C6Z	Bahamas
C7A-C7Z*	World Meteorological Organization
C8A-C9Z	Mozambique
DAA-DRZ	Federal Republic of Germany
DSA-DTZ	Republic of Korea
DUA-DZZ	Philippines
D2A-D3Z	Angola
D4A-D4Z	Cape Verde
D5A-D5Z	Liberia
D6A-D6Z	Comoros
D7A-D9Z	Republic of Korea
EAA-EHZ	Spain
EIA-EJZ	Ireland
EKA-EKZ	Union of Soviet Socialist Republics
ELA-ELZ	Liberia
EMA-EOZ	Union of Soviet Socialist Republics
EPA-EQZ	Iran
ERA-ESZ	Union of Soviet Socialist Republics
ETA-ETZ	Ethiopia
EUA-EWZ	Byelorussian Soviet Socialist Republic
EXA-EZZ	Union of Soviet Socialist Republics
FAA-FZZ	France
GAA-GZZ	United Kingdom of Great Britain and Northern Ireland
HAA-HAZ	Hungary
HBA-HBZ	Switzerland
HCA-HDZ	Ecuador
HEA-HEZ	Switzerland
HFA-HFZ	Poland
HGA-HGZ	Hungary
HHA-HHZ	Haiti
HIA-HIZ	Dominican Republic
HJA-HKZ	Colombia
HLA-HLZ	Republic of Korea
HMA-HMZ	Democratic People's Republic of Korea
HNA-HNZ	Iraq
HOA-HPZ	Panama
HQA-HRZ	Honduras
HSA-HSZ	Thailand
HTA-HTZ	Nicaragua
HUA-HUZ	El Salvador
HVA-HVZ	Vatican City
HWA-HYZ	France
HZA-HZZ	Saudi Arabia
H2A-H2Z	Cyprus
H3A-H3Z	Panama
H4A-H4Z	Solomon Islands
H6A-H7Z	Nicaragua
H8A-H9Z	Panama
IAA-IZZ	Italy
JAA-JSZ	Japan
JTA-JVZ	Mongolian People's Republic
JWA-JXZ	Norway
JYA-JYZ	Jordan
JZA-JZZ	Indonesia
J2A-J2Z	Djibouti
J3A-J3Z	Grenada
J4A-J4Z	Greece
J5A-J5Z	Guinea-Bissau

Call Sign Series

J6A-J6Z	Saint Lucia
J7A-J7Z	Dominica
J8A-J8Z	St. Vincent and the Grenadines
KAA-KZZ	United States of America
LAA-LNZ	Norway
LOA-LWZ	Argentina
LXA-LXZ	Luxembourg
LYA-LYZ	Union of Soviet Socialist Republics
LZA-LZZ	Bulgaria
L2A-L9Z	Argentina
MAA-MZZ	United Kingdom of Great Britain and Northern Ireland
NAA-NZZ	United States of America
OAA-OCZ	Peru
ODA-ODZ	Lebanon
OEA-OEZ	Austria
OFA-OJZ	Finland
OKA-OMZ	Czechoslovakia
ONA-OTZ	Belgium
OUA-OZZ	Denmark
PAA-PIZ	Netherlands
PJA-PJZ	Netherlands Antilles
PKA-POZ	Indonesia
PPA-PYZ	Brazil
PZA-PZZ	Suriname
P2A-P2Z	Papua New Guinea
P3A-P3Z	Cyprus
P4A-P4Z	Aruba
P5A-P9Z	Democratic People's Republic of Korea
QAA-QZZ	(Service abbreviations)
RAA-RZZ	Union of Soviet Socialist Republics
SAA-SMZ	Sweden
SNA-SRZ	Poland
SSA-SSM	Egypt
SSN-STZ	Sudan
SUA-SUZ	Egypt
SVA-SZZ	Greece
S2A-S3Z	Bangladesh
S6A-S6Z	Singapore
S7A-S7Z	Seychelles
S9A-S9Z	Sao Tome and Principe
TAA-TCZ	Turkey
TDA-TDZ	Guatemala
TEA-TEZ	Costa Rica
TFA-TFZ	Iceland
TGA-TGZ	Guatemala
THA-THZ	France
TIA-TIZ	Costa Rica
TJA-TJZ	Cameroon
TKA-TKZ	France
TLA-TLZ	Central African Republic
TMA-TMZ	France
TNA-TNZ	Congo
TOA-TQZ	France
TRA-TRZ	Gabon
TSA-TSZ	Tunisia
TTA-TTZ	Chad
TUA-TUZ	Ivory Coast
TVA-TXZ	France
TYA-TYZ	Benin
TZA-TZZ	Mali
T2A-T2Z	Tuvalu
T3A-T3Z	Kiribati
T4A-T4Z	Cuba
T5A-T5Z	Somalia
T6A-T6Z	Afghanistan
T7A-T7Z	San Marino
UAA-UQZ	Union of Soviet Socialist Republics
URA-UTZ	Ukrainian Soviet Socialist Republic
UUA-UZZ	Union of Soviet Socialist Republics
VAA-VGZ	Canada
VHA-VNZ	Australia
VOA-VOZ	Canada
VPA-VSZ	United Kingdom of Great Britain and Northern Ireland
VTA-VWZ	India
VXA-VYZ	Canada
VZA-VZZ	Australia
V2A-V2Z	Antigua and Barbuda
V3A-V3Z	Belize
V4A-V4Z	St. Christopher and Nevis
V6A-V6Z	Micronesia
V7A-V7Z	Marshall Islands
V8A-V8Z	Brunei
WAA-WZZ	United States of America
XAA-XIZ	Mexico
XJA-XOZ	Canada
XPA-XPZ	Denmark

Allocated to

Call Sign Series	Allocated to
XQA-XRZ	Chile
XSA-XSZ	China
XTA-XTZ	Burkina Faso
XUA-XUZ	Kampuchea
XVA-XVZ	Viet Nam
XWA-XWZ	Laos
XXA-XXZ	Portugal
XYA-XZZ	Burma
YAA-YAZ	Afghanistan
YBA-YHZ	Indonesia
YIA-YIZ	Iraq
YJA-YJZ	New Hebrides
YKA-YKZ	Syria
YLA-YLZ	Union of Soviet Socialist Republics
YMA-YMZ	Turkey
YNA-YNZ	Nicaragua
YOA-YRZ	Romania
YSA-YSZ	El Salvador
YTA-YUZ	Yugoslavia
YVA-YYZ	Venezuela
YZA-YZZ	Yugoslavia
Y2A-Y9Z	German Democratic Republic
ZAA-ZAZ	Albania
ZBA-ZJZ	United Kingdom of Great Britain and Northern Ireland
ZKA-ZMZ	New Zealand
ZNA-ZOZ	United Kingdom of Great Britain and Northern Ireland
ZPA-ZPZ	Paraguay
ZQA-ZQZ	United Kingdom of Great Britain and Northern Ireland
ZRA-ZUZ	South Africa
ZVA-ZZZ	Brazil
Z2A-Z2Z	Zimbabwe
2AA-2ZZ	United Kingdom of Great Britain and Northern Ireland
3AA-3AZ	Monaco
3BA-3AZ	Mauritius
3CA-3CZ	Equatorial Guinea
3DA-3DM	Swaziland
3DN-3DZ	Fiji
3EA-3FZ	Panama
3GA-3GZ	Chile
3HA-3UZ	China
3VA-3VZ	Tunisia
3WA-3WZ	Viet Nam
3XA-3XZ	Guinea
3YA-3YZ	Norway
3ZA-3ZZ	Poland
4AA-4CA	Mexico
4DA-4IZ	Philippines
4JA-4LZ	Union of Soviet Socialist Republics
4MA-4MZ	Venezuela
4NA-4OZ	Yugoslavia
4PA-4SZ	Sri Lanka
4TA-4TZ	Peru
4UA-4UZ*	United Nations Organization
4VA-4VZ	Haiti
4WA-4WZ	Yemen Arab Republic
4XA-4XZ	Israel
4YA-4YZ*	International Civil Aviation Organization

Call Sign Series	Allocated to
4ZA-4ZZ	Israel
5AA-5AZ	Libya
5BA-5BZ	Cyprus
5CA-5GZ	Morocco
5HA-5IZ	Tanzania
5JA-5KZ	Colombia
5LA-5MZ	Liberia
5NA-5OZ	Nigeria
5PA-5QZ	Denmark
5RA-5SZ	Madagascar
5TA-5TZ	Mauritania
5UA-5UZ	Niger
5VA-5VZ	Togo
5WA-5WZ	Western Samoa
5XA-5XZ	Uganda
5YA-5ZZ	Kenya
6AA-6BZ	Egypt
6CA-6CZ	Syria
6DA-6JZ	Mexico
6KA-6NZ	Republic of Korea
6OA-6OZ	Somalia
6PA-6SZ	Pakistan
6TA-6UZ	Sudan
6VA-6WZ	Senegal
6XA-6XZ	Madagascar
6YA-6YZ	Jamaica
6ZA-6ZZ	Liberia
7AA-7IZ	Indonesia
7JA-7NZ	Japan
7OA-7OZ	Yemen
7PA-7PZ	Lesotho
7QA-7QZ	Malawi
7RA-7RZ	Algeria
7SA-7SZ	Sweden
7TA-7YZ	Algeria
7ZA-7ZZ	Saudi Arabia
8AA-8IZ	Indonesia
8JA-8NZ	Japan
8OA-8OZ	Botswana
8PA-8PZ	Barbados
8QA-8QZ	Maldives
8RA-8RZ	Guyana
8SA-8SZ	Sweden
8TA-8YZ	India
8ZA-8ZZ	Saudi Arabia
9BA-9DZ	Iran
9EA-9FZ	Ethiopia
9GA-9GZ	Ghana
9HA-9HZ	Malta
9IA-9JZ	Zambia
9KA-9KZ	Kuwait
9LA-9LZ	Sierra Leone
9MA-9MZ	Malaysia
9NA-9NZ	Nepal
9OA-9TZ	Zaire
9UA-9UZ	Burundi
9VA-9VZ	Singapore
9WA-9WZ	Malaysia
9XA-9XZ	Rwanda
9YA-9ZZ	Trinidad and Tobago

*The series of call signs with an asterisk indicate the international organization to which they are allocated.

ARRL RECOMMENDED PRECEDENCES

Please observe the following ARRL provisions for PRECEDENCES in connection with written message traffic. These provisions are designed to increase the efficiency of our service both in normal times and in emergency.

Precedences

EMERGENCY	Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instruction vital to relief of stricken populace in emergency areas. During normal times, it will be very rare . On CW/RTTY, this designation will always be spelled out. When in doubt, do not use it.
PRIORITY	Use abbreviation <i>P</i> on CW/RTTY. This classification is for a) important messages having a specific time limit b) official messages not covered in the emergency category c) press dispatches and emergency-related traffic not of the utmost urgency d) notice of death or injury in a disaster area, personal or official.
WELFARE	This classification, abbreviated as <i>W</i> on CW/RTTY, refers to either an inquiry as to the health and welfare of an individual in the disaster area or an advisory from the disaster area that indicates all is well. Welfare traffic is handled only after all emergency and priority traffic is cleared. The Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).
ROUTINE	Most traffic in normal times will bear this designation. In disaster situations, traffic labeled Routine (<i>R</i> on CW/RTTY) should be handled last, or not at all when circuits are busy with higher precedence traffic.

NOTE: The precedence always follows the message number. For an example, a message number may be 207 *R* on CW and "Two Zero Seven Routine" on phone.

ARRL NUMBERED RADIOGRAMS

The letters ARL are inserted in the preamble in the check and in the text before spelled out numbers, which represent texts from this list. Note that some ARRL texts include insertion of numerals. *Example:* NR 1 R W1AW ARL 5 NEWINGTON CONN JUNE 1 DONALD R SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO AA PHONE 733 3968 BT ARRL FIFTY ARL SIXTY ONE BT DIANA AR. For additional information about traffic handling, consult *The ARRL Operating Manual*.

Group One—For Possible “Relief Emergency” Use

ONE	Everyone safe here. Please don't worry.
TWO	Coming home as soon as possible.
THREE	Am in _____ hospital. Receiving excellent care and recovering fine.
FOUR	Only slight property damage here. Do not be concerned about disaster reports.
FIVE	Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated.
SIX	Will contact you as soon as possible.
SEVEN	Please reply by Amateur Radio through the amateur delivering this message. This is a free public service.
EIGHT	Need additional _____ mobile or portable equipment for immediate emergency use.
NINE	Additional _____ radio operators needed to assist with emergency at this location.
TEN	Please contact _____. Advise to standby and provide further emergency information, instructions or assistance
ELEVEN	Establish Amateur Radio emergency communications with _____ on _____ MHz.
TWELVE	Anxious to hear from you. No word in some time. Please contact me as soon as possible.
THIRTEEN	Medical emergency situation exists here.
FOURTEEN	Situation here becoming critical. Losses and damage from _____ increasing.
FIFTEEN	Please advise your condition and what help is needed.
SIXTEEN	Property damage very severe in this area.
SEVENTEEN	REACT communications services also available. Establish REACT communications with _____ on channel _____.
EIGHTEEN	Please contact me as soon as possible at _____.
NINETEEN	Request health and welfare report on _____. (State name, address and telephone number.)
TWENTY	Temporarily stranded. Will need some assistance. Please contact me at _____.
TWENTY ONE	Search and Rescue assistance is needed by local authorities here. Advise availability.
TWENTY TWO	Need accurate information on the extent and type of conditions new existing at your location. Please furnish this information and reply without delay.
TWENTY THREE	Report at once the accessibility and best way to reach your location.
TWENTY FOUR	Evacuation of residents from this area urgently needed. Advise plans for help.

TWENTY FIVE	Furnish as soon as possible the weather conditions at your location.
TWENTY SIX	Help and care for evacuation of sick and injured from this location needed at once.

Emergency/priority messages originating from official sources, must carry the signature of the originating official.

Group Two—Routine messages

FORTY SIX	Greetings on your birthday and best wishes for many more to come.
FIFTY	Greetings by Amateur Radio
FIFTY ONE	Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators here at _____. Am having a wonderful time.
FIFTY TWO	Really enjoyed being with you. Looking forward to getting together again.
FIFTY THREE	Received your _____. It's appreciated; many thanks.
FIFTY FOUR	Many thanks for your good wishes.
FIFTY FIVE	Good news is always welcome. Very delighted to hear about yours.
FIFTY SIX	Congratulations on your _____, a most worthy and deserved achievement.
FIFTY SEVEN	Wish we could be together.
FIFTY EIGHT	Have a wonderful time. Let us know when you return.
FIFTY NINE	Congratulations on the new arrival. Hope mother and child are well.
*SIXTY	Wishing you the best of everything on _____.
SIXTY ONE	Wishing you a very merry Christmas and a happy New Year.
*SIXTY TWO	Greetings and best wishes to you for a pleasant _____ holiday season.
SIXTY THREE	Victory or defeat, our best wishes are with you. Hope you win.
SIXTY FOUR	Arrived safely at _____.
SIXTY FIVE	Arriving _____ on _____. Please arrange to meet me there.
SIXTY SIX	DX QSLs are on hand for you at the _____ QSL Bureau. Send _____ self addressed envelopes.
SIXTY SEVEN	Your message number _____ undeliverable because of _____. Please advise.
SIXTY EIGHT	Sorry to hear that you are ill. Best wishes for a speedy recovery.

ARRL NUMBERS SHOULD BE SPELLED OUT AT ALL TIMES

*Can be used for all holidays.

License Renewal Information

1) To renew your license, complete FCC Form 610 (available from ARRL HQ; SASE, please) being careful not to miss any applicable boxes or blanks that apply. Type or print neatly in pen. Only June 1984 and later editions of FCC Form 610 may be used.

2) Remember to attach a photocopy (or the original) of your license to the Form 610.

3) Mail your application to FCC, PO Box 1020, Gettysburg, PA 17326. There is no fee for renewing an amateur license.

4) Application to renew should be made approximately 90 days before expiration; however, renewal can be applied for at any time during the term of the license.

5) It's a good idea to retain a copy of your application as proof of filing before the expiration date of your license. If you filed *before* the license expiration date, you may continue to operate

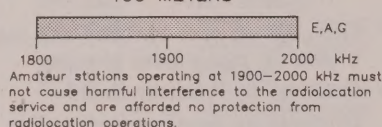
beyond the expiration date and until the new license arrives. Otherwise you may not operate until you receive a new license.

6) If your license has already expired, it is still possible to renew. The FCC allows a 5-year grace period, after the expiration date, for licenses with a 5-year term. (Note that the new ten-year term licenses, which have been issued since January 1984, have only a 2-year grace period before *both* the license and the call sign expire.) After two years of the grace period have elapsed, you will lose your call sign and be assigned a new one.

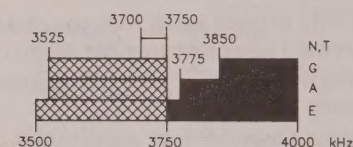
7) If you are simply modifying your license (change of address, for example), you must also fill out Form 610. Incidentally, your license will also be automatically renewed at this time.

8) If you have any questions or problems, drop a note to the Regulatory Information Department, ARRL HQ.

160 METERS

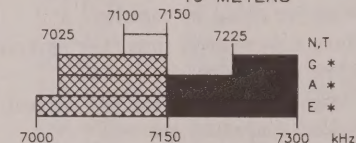


80 METERS



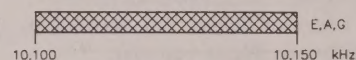
5167.5 kHz (SSB only): Alaska emergency use only.

40 METERS



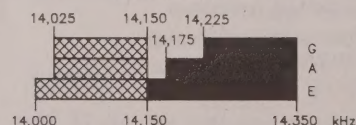
* Phone operation is allowed on 7075–7100 kHz in Puerto Rico, US Virgin islands and areas of the Caribbean south of 20 degrees north latitude; and in Hawaii and areas near ITU Region 3, including Alaska.

30 METERS

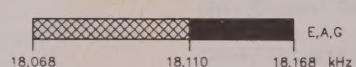


Maximum power on 30 meters is 200 watts PEP output. Amateurs must avoid interference to the fixed service outside the US.

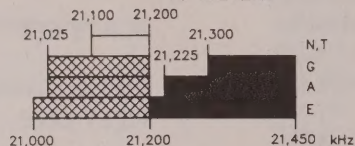
20 METERS



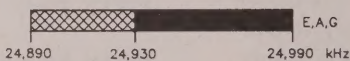
17 METERS



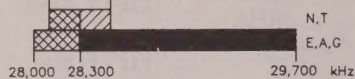
15 METERS



12 METERS



10 METERS



Novices and Technicians are limited to 200 watts PEP output on 10 meters.

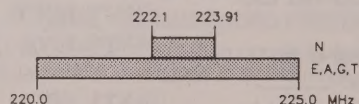
6 METERS



2 METERS

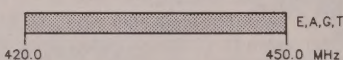


1.25 METERS



Novices are limited to 25 watts PEP output from 222.1 to 223.91 MHz.

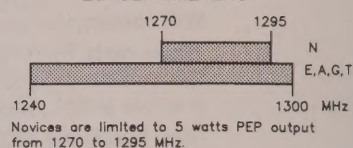
70 CENTIMETERS



33 CENTIMETERS



23 CENTIMETERS



US AMATEUR BANDS

(Effective January 31, 1989)

Revised July 25, 1989

US AMATEUR POWER LIMITS

At all times, transmitter power should be kept down to that necessary to carry out the desired communications. Power is rated in watts PEP output. Unless otherwise stated, the maximum power output is 1500 W. Power for all license classes is limited to 200 W in the 10,100-10,150 kHz band and in all Novice subbands below 28,100 kHz. Novices and Technicians are restricted to 200 W in the 28,100-28,500 kHz subbands. In addition, Novices are restricted to 25 W in the 222.1-223.91 MHz subband and 5 W in the 1270-1295 MHz subband.

Operators with Technician class licenses and above may operate on all bands above 50 MHz. For the most up-to-date information, please check the latest edition of *The FCC Rule Book* or the "Happenings" column in *QST*.

KEY

- = CW and RTTY
- = CW, Voice, SSTV, FAX, and RTTY
- = CW, Voice, SSTV, and FAX
- = CW and SSB
- = CW only

- E = AMATEUR EXTRA
- A = ADVANCED
- G = GENERAL
- T = TECHNICIAN
- N = NOVICE

INTERNATIONAL Q SIGNALS

A Q signal followed by a ? asks a question. A Q signal without the ? answers affirmatively, unless otherwise indicated.

QRA	What is the name of your station?
QRG	What's my exact frequency?
QRH	Does my frequency vary?
QRI	How is the tone of my transmission? (1-3)
QRK	What is my signal intelligibility? (1-5)
QRL	Are you busy?
QRM	Is my transmission being interfered with?
QRN	Are you troubled by static?
QRO	Shall I increase transmitter power?
QRP	Shall I decrease transmitter power?
QRQ	Shall I send faster?
QRS	Shall I send slower?
QRT	Shall I stop sending?
QRU	Have you anything for me? (Answer in negative).
QRV	Are you ready?
QRW	Shall I tell.....you're calling him?
QRX	When will you call again?
QRZ	Who is calling me?
QSA	What is my signal strength? (1-5)
QSB	Are my signals fading?
QSD	Is my keying defective?
QSG	Shall I send.....messages at a time?
QSK	Can you work breakin?
QSL	Can you acknowledge receipt?
QSM	Shall I repeat the last message sent?
QSO	Can you communicate with.....direct?
QSP	Will you relay to.....?
QSV	Shall I send a series of V's?
QSW	Will you transmit on.....?
QSX	Will you listen for.....on.....?
QSY	Shall I change frequency?
QSZ	Shall I send each word/group more than once? (Answer, send twice or.....)
QTA	Shall I cancel number.....?
QTB	Do you agree with my word count? (Answer negative)
QTC	How many messages have you to send?
QTH	What is your location?
QTR	What is your time?
QTV	Shall I stand guard for you.....?
QTX	Will you keep your station open for further communication with me?
QUA	Have you news of.....?

ITU PHONETIC ALPHABET

Word list adopted by the
International Telecommunication Union

A ALFA	N NOVEMBER
B BRAVO	O OSCAR
C CHARLIE	P PAPA
D DELTA	Q QUEBEC
E ECHO	R ROMEO
F FOXTROT	S SIERRA
G GOLF	T TANGO
H HOTEL	U UNIFORM
I INDIA	V VICTOR
J JULIET	W WHISKEY
K KILO	X X-RAY
L LIMA	Y YANKEE
M MIKE	Z ZULU

IN AN EMERGENCY

Monitor your local emergency frequency.
Make contact with your local EC.
Take immediate steps to follow any prearranged plans.
Stay off the air unless or until you are *sure* you can be of assistance.
In widespread emergencies, monitor W1AW for latest bulletins and news.

TIME CONVERSION CHART

UTC	EDT/AST	CDT/EST	MDT/CST	PDT/MST	PST
0000*	2000	1900	1800	1700	1600
0100	2100	2000	1900	1800	1700
0200	2200	2100	2000	1900	1800
0300	2300	2200	2100	2000	1900
0400	0000*	2300	2200	2100	2000
0500	0100	0000*	2300	2200	2100
0600	0200	0100	0000*	2300	2200
0700	0300	0200	0100	0000*	2300
0800	0400	0300	0200	0100	0000*
0900	0500	0400	0300	0200	0100
1000	0600	0500	0400	0300	0200
1100	0700	0600	0500	0400	0300
1200	0800	0700	0600	0500	0400
1300	0900	0800	0700	0600	0500
1400	1000	0900	0800	0700	0600
1500	1100	1000	0900	0800	0700
1600	1200	1100	1000	0900	0800
1700	1300	1200	1100	1000	0900
1800	1400	1300	1200	1100	1000
1900	1500	1400	1300	1200	1100
2000	1600	1500	1400	1300	1200
2100	1700	1600	1500	1400	1300
2200	1800	1700	1600	1500	1400
2300	1900	1800	1700	1600	1500
2400	2000	1900	1800	1700	1600

Coordinated Universal Time (UTC) is the time at the zero or reference meridian. Time changes one hour with each change of 15° in longitude. The five time zones in the U.S. proper and Canada roughly follow these lines.

*0000 and 2400 are interchangeable. 2400 is associated with the date of the day ending. 0000 with the day just starting.

The R-S-T SYSTEM

READABILITY

- 1—Unreadable.
- 2—Barely readable, occasional words distinguishable.
- 3—Readable with considerable difficulty.
- 4—Readable with practically no difficulty.
- 5—Perfectly readable.

SIGNAL STRENGTH

- 1—Faint signals, barely perceptible.
- 2—Very weak signals.
- 3—Weak signals.
- 4—Fair signals.
- 5—Fairly good signals.
- 6—Good signals.
- 7—Moderately strong signals.
- 8—Strong signals.
- 9—Extremely strong signals.

TONE

- 1—Sixty cycle ac or less, very rough and broad.
- 2—Very rough ac, very harsh and broad.
- 3—Rough ac tone, rectified but not filtered.
- 4—Rough note, some trace of filtering.
- 5—Filtered rectified ac, but strongly ripple-modulated.
- 6—Filtered tone, definite trace of ripple modulation.
- 7—Near pure tone, trace of ripple modulation.
- 8—Near perfect tone, slight trace of modulation.
- 9—Perfect tone, no trace of ripple, or modulation of any kind.

If the signal has the characteristic steadiness of crystal control, add the letter X to the RST report. If there is a chirp, the letter C may be added to so indicate. Similarly for a click, add K. The above reporting system is used on both CW and voice, leaving out the "tone" report on voice.

